

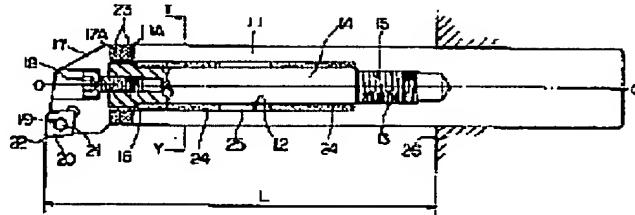
CUTTING TOOL

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- international: **B23B27/00; B23B29/02; F16F15/04; B23B27/00; B23B29/00; F16F15/04; (IPC1-7): B23B27/00; B23B29/02**
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Abstract of JP5228707

PURPOSE: To enhance the stability limit of a cutting tool against vibration by arranging a friction vibration absorber on an abutting surface between a cutting head and a tool main body and forming a viscoelastic layer around a rod spring. **CONSTITUTION:** The vibration, which displaces a cutting head 17, propagates to a tool main body 11 from an abutting surface between the cutting head 17 and the tool main body 11. Each of these abutting surfaces is provided with a friction vibration absorber 23. Therefore, even if the cutting head 17 vibrates, since these vibration absorbers 23 are slid and rubbed-against each other, vibration energy is converted into frictional heat, thereby reducing the vibration propagated to the tool main body 11. On the other hand, the vibration, which displaces a rod spring 14 to propagate the tool main body 11, is damped by a viscoelastic layer 24, which is placed between the rod spring 14 and an inserting hole 12 of the tool main body 11.



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